



**Department of Energy**

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FEB 08 2000

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Mr Steve Gunderson  
RFCA Project Coordinator  
Colorado Department of Public Health and Environment  
4300 Cherry Creek Drive South  
Denver, Colorado 80246-1530

Mr Tim Rehder  
RFCA Project Manager  
United States Environmental Protection Agency  
999 18<sup>th</sup> Street, Suite 500  
Denver, Colorado 80202-2466

Dear Mr Gunderson and Mr Rehder

Enclosed is the Rocky Flats Cleanup Agreement (RFCA) Implementation Quarterly Status Report for the First Quarter Fiscal Year 2000. Notable achievements during this quarter included the demolition of the first major plutonium building at the Rocky Flats Environmental Technology Site, Building 779, progress by the Actinide Migration Evaluation Group, and submittal to the Colorado Department of Public Health and Environment and the Environmental Protection Agency (EPA) of the Industrial Area Characterization and Remediation Strategy. Also, the RFCA parties agreed to pursue a proposal for the EPA to assume responsibility for 903 Pad remediation.

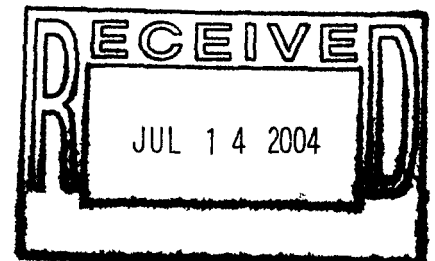
Please provide your comments to me by mid-February so we can finalize the document and distribute it to the stakeholders by the end of the month.

If you have any questions or comments, please contact me at (303) 966-5918 or Glenn Doyle at (303) 966-3087.

Sincerely,

Joseph A. Legare  
Assistant Manager  
for Environment and Infrastructure

Enclosure  
cc w/Enc  
J Legare, AMEI, RFFO  
G Doyle, AMEI, RFFO  
D Shelton, K-H  
L Brooks, K-H  
S Gunderson, CDPHE  
T Rehder, EPA



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ADMIN RECORD

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**QUARTERLY STATUS REPORT**  
**RFCA IMPLEMENTATION**  
**ROCKY FLATS ENVIRONMENTAL TECHNOLOGY SITE**  
**FIRST QUARTER FISCAL YEAR 2000**

**1 0 Introduction**

Pursuant to paragraph 263 of the Rocky Flats Cleanup Agreement (RFCA or Agreement) this quarterly status report presents the progress toward implementation of activities covered under the Agreement. The RFCA is a legally binding agreement between the Department of Energy (DOE), the Environmental Protection Agency (EPA), and the Colorado Department of Public Health and Environment (CDPHE) to accomplish required cleanup of radionuclide and hazardous substance contamination at and from the Rocky Flats Environmental Technology Site (RFETS or Site).

This report describes key activities that occurred from October 1999 through December 1999 (referred to as the first quarter of fiscal year [FY] 00). The sections of this report are organized into the following topics: (1) Introduction, (2) Key Site-wide Activities Supporting RFCA and Site Closure, and (3) List of Approved Decision Documents.

**2 0 Key Site-wide Activities Supporting RFCA and Site Closure**

**2 1 Industrial Area Operable Unit, Building 779 Cluster Closure Project**

The Decommissioning Operations Plan (DOP) for the Building (B) 779 Cluster Project was approved by CDPHE on February 6, 1998. As of December 31, 1999, the following activities were completed or initiated:

- (1) The Closeout Radiological Survey Report and the Non-Radiological Closeout Report for the Administrative Area of B779 was completed and approved by the DOE, Rocky Flats Field Office (RFFO) and CDPHE,
- (2) Demolition of the Administrative Area of B779 was completed,
- (3) The Closeout Radiological Survey Report and the Non-Radiological Closeout Report for the Annex A area of B779 was completed and approved by DOE, RFFO and CDPHE,
- (4) The Closeout Radiological Survey Report and the Non-Radiological Closeout Report for B779 Main Building was completed and approved by DOE, RFFO and CDPHE,
- (5) Demolition of B779 Main Building and Annex B (remainder of B779), was initiated on December 30, 1999.
- (6) Buildings 784, 785, 786, 787 (Cooling Towers) were demolished,
- (7) Building S783 (Metal Paint Storage Bldg) was removed,
- (8) Three above ground storage tanks were removed,
- (9) Stripout of B782 (Filter Plenum Facility) was initiated.

## **2.2 Actinide Migration Evaluation**

During the first quarter of FY00, the Actinide Migration Evaluation (AME) Group conducted the following activities

- (1) A regulator and stakeholder meeting was held on October 4, 1999 to discuss (a) soil aggregation properties, (b) the results of the air modeling (c) summary of redox and colloid experiments (d) plutonium bio-uptake and (e) the status of the 903 Pad remediation project
- (2) The watershed erosion (WEPP) modeling for the South Interceptor Ditch, Woman Creek and Walnut Creek watersheds and the sediment transport modeling (and the results report) was revised based upon comments from Dr. Leonard Lane,
- (3) The redox experiments and final reports were completed,
- (4) The draft uranium geochemical modeling report was reviewed,
- (5) Documentation for conducting uranium Inductively-Coupled Plasma/Mass Spectrometry analyses at Los Alamos National Laboratory for RFETS groundwater samples was prepared,
- (6) Documentation for collection of concrete and soil samples for determining the plutonium, americium, and uranium valence states of the sample was prepared,
- (7) Summary of FY00 work scope was prepared, and
- (8) Two aseptic groundwater wells were installed

A public AME meeting was held on January 10, 2000, to discuss soil kriging results, AME work scope progress, and comments on the conceptual model. Results of the meeting will be included in next quarter's report.

## **2.3 Industrial Area Characterization and Remediation Strategy**

The Industrial Area Characterization and Remediation Strategy (IA Strategy), submitted to CDPHE and EPA in FY99, provides a roadmap to closure of the Industrial Area (IA) Operable Unit (OU). The IA Strategy integrates characterization and remediation of the IA individual hazardous substance sites (IHSS) with decontamination & decommissioning (D&D) activities. The IA Strategy also addresses other interfaces and streamlining actions essential to achieving the goals of the 2006 Closure Project Baseline.

The first action of the IA Strategy is to develop an Industrial Area Sampling and Analysis Plan (IASAP). Development of the draft IASAP was initiated during the first quarter of FY00. A Working Group was established and was comprised of representatives from CDPHE, EPA, DOE and the Kaiser-Hill Team. Working Group tasks included development of draft data quality objectives (DQOs), a data filter process for assessing usability of existing analytical data from the IA, and review of the existing data management processes to determine needed upgrades to the Soil Water Database. The DQOs will guide characterization of the IA to support remediation, and ensure that the characterization data will also support the Comprehensive Risk Assessment. Consensus on the DQOs by CDPHE, EPA, DOE and the Kaiser-Hill Team is expected early in the second quarter of FY00. A draft IASAP will be developed after consensus is reached on the DQOs. The IASAP will require approval by EPA and CDPHE prior to implementation.

#### **2.4 Buffer Zone Operable Unit, 903 Pad**

To address the EPA's and CDPHE's concerns about the large scope of environmental restoration work currently scheduled for the final two years of the RFETS closure project, the RFCA Parties have agreed to pursue a proposal for the EPA to assume responsibility for 903 Pad remediation. If this proposal is adopted, the DOE agrees to provide funding to the EPA for the remediation. The Parties believe that any such remediation project assumed by the EPA should begin in FY02. The Parties will define the regulatory, site support, and contractual framework of the proposal by June 30, 2000. In the event 903 Pad remediation is not assumed by the EPA, 903 Pad remediation by the Site contractor will begin in FY03 with completion in FY05.

#### **2.5 RFCA Milestones and Target Activities**

RFCA FY00 Milestones were established on January 4, 1999, and are included as Attachment 1. Since the milestones were established after the close of the first quarter of FY00, there will be no progress report on the status of the milestones until next quarter's report. Target activities for FY00 have not been established.

#### **3.0 List of Approved Decision Documents**

This list of approved decision documents provides the information for the update to RFCA Attachment 12.

- (1) CDPHE and EPA approved the RFCA Standard Operating Protocol (RSOP) for the disposition of concrete rubble on October 18, 1999.
- (2) CDPHE approved the Building 776/777 Closure Project Decommissioning Operations Plan on November 5, 1999.
- (3) A minor modification to the Decommissioning Operations Plan for 776/777 was approved by CDPHE on December 15, 1999. This minor modification describes unit-specific closure information and removal of RCRA units within set 62.

**Attachment 1 RFCA FY00 Milestones**

<b>RFCA FY00 MILESTONES</b>	
FY00-M2	Complete demolition to slab of B779 by 9/30/00
FY00-M5	Ship 6000m3 of LL/LLMW between 10/1/99 and 9/30/00
FY00-M6	Complete 86 shipments to WIPP during FY00 This assumes WIPP is open and remains open during the fiscal year, WIPP receives a RCRA disposal permit and can accept Rocky Flats TRU and TRM by February 2000 NMED certifies shipments of Rocky Flats waste to WIPP by February 2000
FY00-new	Store TRU waste in B906 by September 1, 2000 If B906 is needed prior to September 1, 2000, for TRU waste storage, then B906 must be ready in time to not impact residues or D&D (i e Slowing down the generation rate of TRU waste is not an acceptable means of meeting this milestone)
FY00-new	Complete 18 D&D worksets between 10/1/99 and 9/30/00

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